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APPLICANT : IDEMITSU PETROCHEM CO LTD;

INVENTOR : YAMADA MOTOKI;

$$100y / \{y \times (1 - x / 100) + x\} \leq 1.13z - 16.6$$

INT.CL. : C08F210/06 C08K 3/34 C08L 23/10
//(C08L 23/10 , C08L 23:16)

TITLE : POLYPROPYLENE-BASED RESIN AND
POLYPROPYLENE-BASED RESIN
COMPOSITION

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a polypropylene-based resin composition improved in flowability, rigidity, tensile elongation at break and impact resistance by mixing a polypropylene-based resin specified in melt index, xylene-solubles content, etc., with an ethylene and/or α -olefin copolymer and talc.

SOLUTION: This composition comprises 45-90 wt.% polypropylene resin characterized in that the MI is 30-70 g/10 min, the content (x) of xylene solubles at 25°C is 5-15 wt.%, the ethylene unit content (z) as determined by the isotope carbon nuclear magnetic resonance spectroscopy (^{13}C -NMR) is 2.00 dl/g or above, the content of viscosity (at 135°C in decalin) is 2.00 dl/g or above, the content of xylene insolubles at 25°C and the ethylene unit content (y wt.%) as determined by the ^{13}C -NMR satisfy the relationship, the content of components having molecular weights of 10^6 or above in a molecular weight distribution curve in terms of the polystyrene as determined by gel permeation chromatography is 2 wt.% or above, the MI is 40-130 g/10 min or above, etc., 5-50 wt.% copolymer based on ethylene and/or an α -olefin and 0-25 wt.% talc.

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**(54) POLYPROPYLENE-BASED RESIN AND
POLYPROPYLENE-BASED RESIN COMPOSITION**

(57) Abstract:

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$$100y / [y \times (1 - x/100) + x] \leq 1.13z - 18.8$$

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